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50X1 purchase of many new instruments. the instruments in the laboratory were 15-20 years old, but in good working order. Instruments in the Physical Chemistry Institute included:

- Chemical balances made in Budapest by Erdelyi es Szabo (formerly Zier) on Liliom utca. The laboratory had two balances similar to the chain-0-matie, but they were not considered precision instruments.
- (b) Lippich polarimeter
- (c) Abbe refractometer
- (d) Pulfrich photometer two. The Institute purchased a vertical type Pulfrich photometer from Zeiss/Kiev. It was generally conceded that the optics of this instrument were inferior to those of a similar instrument bought years before from Zeiss/Jena. This instrument was used to determine reflection intensities of light from surfaces prepared by anodic polishing. Students also used the instrument to run absorption curves on colored organic solution.
- (e) Potentiometers with automatic compensation (resistance of working battery was kept constant) - Both instruments were made locally by an engineer, Di Gleria, in a small work shop.
- Resistance boxes and switches These were obtained from the US through UNESCO in 1948-1949.
- Storage batteries (accumulators) These, of 69 amp-hr capacity, were supplied by the Varta plant in Budapest. They were of the glass wall, lead-acid type with glass fiber separators. The policy seemed to be to exchange them every six months at the factory.
- (h) Nickel-Iron batteries ("Nife")
- **(1)** Photo cells
- Frequency generators for conductivity measurements
- (k) pH Potentiometers using the glass electrodes - imported from Denmark.
- Geiger-Mueller counters had to be imported because no Hungarian firm had ever been able to construct counters with (1)plateau characteristics.
- 50X1 (m) Oscilloscopes - several. a new oscilloscope with a 15 cm screen had arrived from Switzerland.
 - Capacity bridge for use with electron tubes imported from (n) England. It used both telephone and visual balancing.

(0)	Contax 35 mm camera with an "F" number of 2.0
50X1	
	it came from the Wost. The cost to the Insti-
50X1	it came from the West. The cost to the Institute was 2,800 forints; it would have cost an individual
50X1	10 thousand forints. Usually, however, there were none avail-
50X1	able for private purchasers. Zeiss/Kiev had
	copied the Leica camera and was putting out a good instrument.

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- (p) Cathode ray oscillograph was used in the investigation of polarization capacity. (There was also a cathode ray oscillograph in the Central Physica Research Institute).
- (q) Cloud chambers several, some 50 cm in diameter.
- 3. A glass blower, Henrik Bucsek, divided his time among the several chemical institutes; it took from two to four weeks to get work done because of the great demand for his time. Only a fair crafts—man, he had operated his own shop across Pushkin utca from the Ecetvoes Lorand University but it was nationalized in 1950 and assigned to the University. The Physics Institute had a shop with three or four skilled instrument makers.
- Hungary. Two belonged to the Electronmicroscopy Institute of the Academy of Sciences; they were located at the Ecetvoes Lorand University and the other one was in the Polytechnical Institute in Budapest. I think that one was obtained from Switzerland in 1950; the other two arrived in 1951. I believe that the latter two came from Czechoslovakia because Dr Iren Sugar, an assistant in physics, had gone to Czechoslovakia to study the operation of the electron microscope and remained in Prague for four months.
- 5. In addition to those mentioned above, the following countries experted scientific equipment and materials to Hungary:
 - (a) Csechoslovakia precision instruments, Abbe refractometers,
 - (b) Germany (Soviet Zone) Hoeppler viscosimeter, escillograph altrathermostat, and such chemicals as potassium, chlorine, bromine, ledine;
 - (e) USSR electrical instruments, ammeters, voltmeters, drilling machines, lathes, optical instruments (mostly from Zeiss/Kiev), micrometer screws.

Because of the difficulty of exchange, little was imported from the West, but there were some exceptions:

- (d) England chemicals, sapacity meter (received in the Summer of 1951), capacity measuring equipment;
- (e) Switzerland oscilloscopes.

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